us.	Approved For Release 2008/06/11 : CIA-RDP80-00810A006300330004-5	25 X 1
	CLASSIFICATION S-F-C-R-E-T	
	CENTRAL INTELLIGENCE AGENCY REPORT	
	INFORMATION REPORT - CDNO	25X1
COUNTRY	Zast Germany DATE DISTR. 2 Me	ry 1955
SUEJECT	VEE Carl Zeiss Jena Organization and Production NO. OF PAGES 5	
PLACE ACQUIRED	NO. OF ENCLS.	25 X 1
DATE OF	SUPPLEMENT TO REPORT NO	
THIS BOCKMENT OF THE UNITED ST	ONTAINS INFORMATION IFFECTING THE HATGINAL DEFENSE ATES, WITHIN THE MEASURE OF TITLE 18, SECTIONS THE	051/4
AND 194 OF THE ATION OF ITS CO IS PROPERTED BE	THE STANDARD OF THE TRANSMISSION OF REVEN. THE STANDARD OF THE TRANSMISSION OF THE PROPERTY OF THE STANDARD OF THE PROPERTY O	25 X 1
1.	Wissenshaff ick whitefung take ienof in Coronal Task: Basic research in the optical field (photographic cameras), is a present to the optical field (photographic cameras), in the optical field (photographic cameras), is a present to the optical fie	
	Head of WHL: Prof: Dr. deul) Coerlich is frequently absent on trips to the USSR. He is rather unnopular	
	Assistants: Dr. Hans Illgen sound film Dr. Kurt Erier * dealt with amplifier ensineering. Dr. is pro-Sommunist Frof. Dr. Koarad Kuehne Professor of Physics in the University Jena	
ο,	Entwicklungshauptleitung (Main Development Control (Affice)(EHL). Nine development offices, including the offices dealing with:	
	a. Interrelated problems, predevelopment tasks and research concerning all sontemplated, developments	
	b. Optics and cameras.	
	c. Electrical items and infrared spectographs.	
	d. Calculating machine	
	S.ECRE-T	
STATE	CLASSIFICATION NAVY	25X 25X
T The same	Annual since a series of the first and the series of the s	

in addition, there exists an administrative office of the EHL. The con-productive administrative personnel with the Zeiss firm amounted to about 40 percent of the total personnel of 18,000. The cooperation between WHL and ENL was rather loose. WHL passed problems at deemed ripe for development to ENL, which consequently and to takke the problems themselves without being assisted by ULL. Pr. Herbort kortun dead of EHL: ssistend . D. Wilhelm Keemmerer "Dr. ortun s first essistant and head of the office for interrelated problems. Ing. Max Straube * Dr. Kortum's dematy Lenski Poll, Graduate engineer Jung Dietrich, Hans

Production manager of the Zeiss firm was Rudolf Mueller.

Develoment and remiseture of relar-controlled relevietica

Factory came of the machine: Oprema, standing for "Optische Rechenmaschine" (Optical calculating mechine).

The order was placed by Minister Rau in person. This was suggested by Dr Corbum the negotiated with Ray and explained the advantages of the mobine to him. This psechine was designed to noted erease the optical calculations, and the general calculation of her systems in order to make up for the advance made by West Germany in the past three years.

Targets:

Project work started in February 1954 and production permission was given by Minister Rau in May 1954, the target was set for 31 December 1954. It was arrected that the machine would be completed by that date.

Fund needed: 1,000,000 Dis

Supplying firms:

- a. RFT Geraetewerk Chemnitz relays
- b. Gleichrichterwerk Grossraecchen (Redtifier Plant) rectifiers
- Other material was procured by driving around in taxis and collecting items at all post offices in East Germany because of inadequate production in East Germany.

SECRET	2	j.)	•	1.
				:

25X1

25X1

25X1

	D)	BOILLST				25 X 1
				V-	J	
		- 3	-			
	Experts:		•			
	Project manag	ger :	Dr. Kaemmerer *	(*indicating the person had been to the USSR; s	n deported	
4.7				7.)		
÷	Theoretical research	t	Dr. Kaemmerer * Poell, grad. eng Jung	.1		
	Design	ı D	ng. Gerhard Tenski *			
	Production manager	1	Dietrich, Hams			
			chine: A relay-controll r calculating lens syste			
	Capacity :	10*15 an automati in case 8,000 te each int an elect	decimal figure (after 1 d 10-15. The machine will comparison of each in of divergent results. The legraph relays and 40,000 ermediate result can be ric typewriter. This men 16,000 calculations can	il be a twin-type made termediate result, au ne machine will inclu 00 locking cells. If printed in decimal f ens that, according t	hine with tomatic stop de about so desired, degres by to this	
		Difficul from the	ties arose from the shore enormous waste of materors, and from the shorts	rtage of certain comprise of the	onept parts,	
	9 *	•	¥15			
6,	institute of	the Dres	ctronic calculating mach	ine at the mathematic y = Professor Willers	al.	
et.	Dresden becareleatronic to amount of was competing will resden approve this Dr. Kaemmere: was also into	erning eluse of thubes. Eac ste was t th his On project. r, it was erested i	ectronic calculating made difficulties experience to tube had to be manufacted high. Dr. Kaemmerer perse, Because the order	ced in procuring procuring procured individually a is keenly interested was given to Professo Jens was disincline the efforts made by a this order. Dr. Kacafactured by the Stut	er nd the in firms r Willers in d te Dr. Kortum and	25X1
7.	All persons treatment of		had been deported to the s firm.	USSR within the col	lective	
8.		rce of th	e main plant in Jena, in 18,000 in June 1954.	neluding that of the	brench	
9•			ilable en infrared equip such equipment.	oment of anti-tank gu	ns nor	
		SECRET				25 X 1

Į

	SECRET 4 -	25X ²
10.	Work on phototheodolites was resumed Ing. Henry Guldbranson was assigned the task of developing and preparing the manufacture of phototheodolites.	
11.	Plans for the production of cameras recently restarted under the collective name of "picture cameras". At first the designs were for the production of picture cameras for land surveying. Development of these apparatus will be also in the hends of Guldbraneon.	
12.	No information has been obtained on the development of a new bomb-releasing device, e.g., link trainers or other training equipment. The manufacture of A-1 equipment has been completed. No repeat orders have been received.	
13.	Development of an electronic miscroscope based on the electronic principle: The electronic microscope manufactured and delivered to date showed that the electronic equipment developed by the Zeiss firm's own plant proved to be a failure. The inventor of this equipment no longer worked with this firm. He had changed over to the ball-bearing firm of Schack in Fraureuth (Thuringis), which allegedly is a firm intended to compete with Schweinfurth ball-bearing foctories. During the period of reference, Mr. Lotz worked on the development of high-speed electric motors driving high-speed grinding spindles. The electric high-voltage components needed for the electronic microscope therefore were supplied to the Zeiss firm by the Dresden firm of Koch and Stertzel and reportedly the electronic part worked faultlessly. A total of ten electronic microscopes allegedly were sold to an undetermined consignee, while another ten were going into mass production as a new production group.	25X ²
14.	The development of an oversize centrifuge was given up after Lotz had left the plant.	
15.	Photographic surveying and evaluation instruments are still in the developing stage and no mass production has started.	
16.	Telecopic sights for sporting guns were manufactured according to we'l-known methods. No innovation in this field has come to source's notice.	,
17.	No new information is available on the development of photocells for phototechnical and technical control devices in general (regeltechnische Zwecke). Eng. Hauenstein (fnu) dealt with the manufacture of photocells for portable sound film equipment.	
18.		25 X 1
19.	No information is available conserning the manufacture of oscillating quartzes of any frequency. Manufacture of oscillating quartzes was started at plant 37.	
	SECRET	25X1

SECRET 25X1

29. No progress was made in the manufacture of optical instruments in connection with experiments made with a view to reliace the previously used deflecting prisms by mirrors, e.g., for binoculars. Microscopes fitted ith mirrors instead of prisms were not acceptable to scientists. The reason for the poor results of these experiments was the fact that not only the adjustment of the mirrors far more difficult than with prisms, but that it also proved impossible to fix the mirrors firmly enough to prevent them from getting out of adjustment after a short period of use.

5

21. The development of the Disvau (sie) infently rangefinder, a scissors-type telescopic rangefinder was continued. Two prototypes of this rangefinder were completed. It was however, impossible to find out whether work on them was continued or if orders had been placed for the manufacture of these rangefinders for the lateral folice. We information on the further development of a 10-mater base havy-type rangefinder has been received.

No innovation with the compass azimuth discs were known. The older -type 6400-graduation azimuth discs were converted into 6000 graduation for the Soviets. It was not learned whether these operations were converted or not.

1				
7				
٠	•			
	1.50	1 A211 /	A 7 A 8 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7	±41

0100

25X1

25X1

SECRET

	S-E-C-R-E-T	26×1
	CLASSIFICATION	25X1
	CENTRAL INTELLIGENCE AGENCY	REPORT
	INFORMATION REPORT	CD NO. 25X1
OUNTRY E	fast Germany	DATE DISTR. 2 May 1955
UBJECT V	WEB Carl Zeiss Jena Organisation and Production	NO. OF PAGES 5
LACE CQUIRED	•	NO. OF ENCLS. (LISTED BELOW) 25X1
ATE OF		SUPPLEMENT TO REPORT NO.
	TIANIS TO OR RECEIPT BY AN BRAUTHURIZED PERSON.	/ALUATED INFORMATION 25X1
1.	Wissenschaftliche Hauptleitung (Main Scientific	Control Office)(WHL)
	Task: Basic research in the optical field (phot Layer research (metal layers), Amplifier ingineering, Electronic microscopes, A 1 - equipment	cographic cameras),
	Work: An infrared WHL spectograph was recently	
	research. No details are available. $(faul)$	submitted for development
`` ``	research. No details are available. (faul) Head of VIL. Prof. D. (faul) He is	1.
	Head of White Poof. Defaul) to the second film Dr.	rabsent on trips to the rather unpopular. Lath as an applifier engineering. Dr. Erler
	research. No details are available. (fau) Head of White Pool. (fau) Assistants: Dr. Dr. Dr. Land (fau) Konnad Trof. (fau) Trof. (fau) From Assistants are available. (fau) From Assistants are available. From Assistants are available. From Assistants are available.	rabsent on trips to the rather unpopular. The property of the rather unpopular. The property of the rather unpopular. The rather unpopular unpopular. The rather unpopular unpopular. The rather unpopular unpopular unpopular. The rather unpopular unpop
	Head of YEL. For. (faul) Head of YEL. For. He is Assistants: Dr. Konrad Entwicklungshauptleitung (Main Development Contr Nine development offices, including the offices	rather unpopular. Erler plifier engineering. Dr. Erler plist Physics in the University of Col Office)(EHL). dealing with:
	research. No details are available. (fau) Head of YEL. Foot. (fau) Assistants: Dr. Market Contract Entwicklungshauptleitung (Main Development Contr	rather unpopular. Erler plifier engineering. Dr. Erler plist Physics in the University of col Office)(EHL). dealing with:
	Head of YEL. For. (faul) Head of YEL. For. He is Assistants: Dr. Main Development Control Nine development offices, including the offices b. Optics and cameras.	rabsent on trips to the rather unpopular. The prince of the university of col Office)(EHL). dealing with:
	Head of YEL. For. (faul) Head of YEL. For. (faul) Assistants: Dr. Main Development Control Nine development offices, including the offices Interplated pales, producing the seks	rather unpopular. Erler plifier engineering. Dr. Erler plist Physics in the University of col Office)(EHL). dealing with:
	Head of Marketo. Head of Marketo. Assistants: Dr. Konrad Entwicklungshauptleitung (Main Development Control Nine development offices, including the offices Development offices. Development offices. Copyright tooks Calculating makings:	rabsent on trips to the rather unpopular. The prince of the university of col Office)(EHL). dealing with:
	Head of Main Development Control Nine development offices, including the offices b. Optics and cameras. c. Electrical items and infrared spectographs.	rabsent on trips to the rather unpopular. The prince of the university of col Office)(EHL). dealing with:

non-producto about 4 The cooper problems i	n, there exists an tive administrative 0 percent of the tration between WHL: t deemed ripe for kle the problems to	e personne otal person and EHL was developmen	l with the nnel of 18 s rather lot to EHL, w	Zeiss firm ,000. oose. WHL pa which conseq	amounted ssed uently
WHL.	L: Dr., Botort	Kortus *	<i>J</i> = 1		
Assistant	Wilhelm				int and head ated problems
杂益 。	Jung Dietrich, Ha	er			
Production	manager of the Ze	iss firm w	as Rudolf 1	Mueller.	
Develormen by the EHI	•		 Single Till State Specialities (In the Section State State		
Development by the EHI Factory nature The order Kortum who machine to calculation	me of the machine: was placed by Mini negotiated with R him. This machine has find the genera	Oprema, (Optical ster Rau i au and exp was desig 1 calculat	standing f celculati n persolained ned to accion of lem	or "Optischeng machine).	Rechemmaschi of the optical order to
Development by the EHI Factory na The order Kortum who machine to calculation make up for	t and manufacture me of the machine: was placed by Mini negotiated with R him. This machine	Oprema, (Optical ster Rau i au and exp was desig 1 calculat	standing f celculati n persolained ned to accion of lem	or "Optischeng machine).	Rechemmaschi of the optical order to
Development by the EHI Factory no The order Kortum who machine to calculation make up for Targets: Project we given by h	me of the machine: was placed by Mini negotiated with R him. This machine mac	Oprema, (Optical ster Rau i au and exp was desig 1 calculat by West G uary 1954 1954, the he machine	standing for colculation personal nead to accommon of lemermany in and productarget way would be	or "Optischeng mrchine). his) elerste the systems in the past thrustion permiss set for 31	e Rechenmaschi The optical order to cee years.
Development by the EHI Factory no The order Kortum who machine to calculation make up for Targets: Project wo given by Manager 1954. It is a second to be a	me of the machine: was placed by Mini negotiated with R him. This machine and the genera or the advance made ork started in Februinister Rau in May as expected that t	Oprema, (Optical ster Rau i au and exp was desig 1 calculat by West G uary 1954 1954, the he machine	standing f celculati n perso lained ned to acc ion of lem ermany in end produc target wa would be	or "Optischeng mrchine). his) elerste the systems in the past thrustion permiss set for 31	e Rechenmaschi The optical order to cee years.
Development by the EHI Factory no The order Kortum who machine to calculation make up for Targets: Project wo given by Manager 1954. It is a second to be a	me of the machine: was placed by Mini negotiated with R him. This machine machine machine the advance made ork started in Febr minister Rau in May as expected that t	Oprema, (Optical ster Rau i au and exp was desig 1 calculat by West G uary 1954 1954, the he machine	standing f celculati n perso lained ned to acc ion of lem ermany in end produc target wa would be	or "Optischeng mrchine). his) elerste the systems in the past thrustion permiss set for 31	e Rechenmaschi The optical order to cee years.
Development by the EHI Factory no The order Kortum who machine to calculation make up for Targets: Project we given by Manager by M	me of the machine: was placed by Mini negotiated with R him. This machine machine machine the advance made ork started in Febr minister Rau in May as expected that t	Oprema, (Optical ster Rau i au and exp was desig 1 calculat by West Guary 1954 1954, the he machine	standing f celculati n perso lained ned to acc ion of lem ermany in end produc target wa would be	or "Optischeng mrchine). his) elerste the systems in the past thrustion permiss set for 31	e Rechenmaschi The optical order to cee years.
Development by the EHI Factory na The order Kortum who machine to calculation make up for Targets: Project wo given by Machine to Supplying a. RFT Games	me of the machine: was placed by Mini negotiated with R him. This machine machine and the genera or the advance made ork started in Febr inister Rau in May has exceeded that t in Direct d: 1,000,000 firms:	Oprema, (Optical ster Rau i au and exp was desig 1 calculat by West G uary 1954 1954, the he machine	standing f celculati n person lained ned to acc ion of len ermany in end produc target wa would be	or "Optische ng mrchine). his properties elerate the systems in the past thr tion permiss s set for 31 completed by	e Rechenmaschi The optical order to cee years. Sion was December of that date.

25X1

SECRET

	TO ITLE			25 X 1
	- 3	-		
Experts:				
Project mana	ger :	Dr. Kaemmerer *	(*indicating the person had been to the USSR; someon.)	n deported
Theoretical research	:	Dr. Kaemmerer * Poell, grad. eng. * Jung	\mathbf{a}_i	
Design		The state of the s		
Production manager	:	Dietrich, Hans		
Description	of the material of the of the material of the officers of the	machine: A relay-controllo	ed program calculati ms. Coded decimal sy	ng machine, stem.
Capacity :	10 ⁺¹⁵ a	decimal figure (after 1. and 10 ⁻¹⁵ . The machine will ic comparison of each interpretable of the comparison of the comp	l be a twin-type mad	hine with
- ≥ , į,	in case 8,000 t each in an elec	e of divergent results. The celegraph relays and 40,000 termediate result can be stric typewriter. This means of 1,000 calculations can	e machine will in the control of the	o this
	from th	alties arose from the shor ne enormous waste of mater ptors, and from the shorta	ial supplied by the	
Develorment	of an el	cotronic colculating such cotronic colculating machi- esden Technical University	ine at the mathematic	el
Dresden became lectronic amount of we competing with the competing wit	cerning eause of tubes. Easte was aste was aste was aste was as a second control of the control	electronic calculating mache difficulties experience ach tube had to be manufactoo high. Dr. Kaar	hines had been posty ed in procuring procuring tured individually a	er nd the in firm y Willow to d: to Dr. Kartum and
All persons treatment or		thad been deported to the iss firm.	USSR within the col	lective
	orce of	the main plact in Jena, in at 18,000 in June 1954.	cluding that of the	branch
		vailable on infrared equip of such equipment.	ment of anti-tank go	ns nor
	SECRET			25X1

٥.

٥.

	SECRET 1	25 X 1
10.	"ork on phototheodolites was resumed by the semilecture of phototheodolites.	
11.	Plans for the production of cameras recently restarted under the collective name of "picture cameras". At first the designs were for the production of picture cameras for land surpose of these apparatus will be also in the hands of these apparatus will be also in the hands of these apparatus.	,
10.	No information has bee obtained on the development of a new bomb-releasing device, e.g., link trainers or other training equipment. The manufacture of A-1 equipment has been completed. No repeat orders have been received.	
13	- Development of an electronic miscroscope based on the electronic	
	The electronic microscope manufactured and delivered to date showed that the electronic equipment developed by the Zeiss firm's own plant proved to be a faiture. The inventor of this equipment no longer worked with this to the compete with the	
14.	The development of an oversize centrifuge was given up after Lotz had left the plant.	25X′
15.	Thotographic surveying and evaluation instruments are still in the developing stage and no mass production has started.	
1.	Telecopic sights for sporting guns were manufactured according to well-known methods. No innovation in this field has come to source's notice.	
17.	No new information is available on the development of photocells for phototechnical and technical control devices in general (regeltechnische Zwecke). Eng. Hauenstein (fnu) dealt with the manufacture of photocells for portable sound film equipment.	
18.		25X′
19.	No information is available concerning the manufacture of oscillating quartzes of any frequency. Manufacture of oscillating quartzes was started at plant 37.	
	SECRET	25 X 1

	SECRET	25X1
	. 5	25X ⁻
an j	No progress was made in the manufacture of optical instruments in	
	compete with experiments made with a view to replace the previously used the previously fitted to the previously fitted t	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	not one to the second of the s	
21:	The development of the telescoric rangefinder were completed. It was the first placed for the manufacture of these rangefinders for the teople's police. No information on the further development of a 10-meter base havy-type rangefinder has been received.	
	No innovation with the compass azimuth discs were known. The older -type 6400-graduation azimuth discs were converted into 6000-graduation for the Soviets. It was not learned whether these operations were completed or not.	
		25 X 1
	SECROT	25 X 1